

PATENT
ART UNIT 3731
10/026,295
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Listing of the Claims

1. (Currently Amended) A polarizing molded article, which comprises a polarizing plate-containing laminated structure, the laminated structure comprising:
 - two protective sheet layers;
 - a polarizer sheet layer having two sides and being held between the two protective sheet layers such that there is a protective sheet layer on both sides of the polarizer sheet layer;
 - a polyurethane sheet layer or a polyamide sheet layer connected to one of the two protective sheet layers with an adhesive, the polyurethane sheet layer or the polyamide sheet layer obtained by an extrusion molding or cast mold method; and
 - a thermally molded resin layer thermally adhered to the polyurethane sheet layer or the polyamide sheet layer, wherein the molded article is molded into a lens.
2. (Original) The polarizing molded article according to claim 1, wherein the polyurethane layer is a polyether series polyurethane sheet or a polyester series polyurethane sheet.
3. (Original) The polarizing molded article according to claim 1, wherein the polyamide sheet layer is a transparent type polyamide sheet.
4. (Previously Presented) The polarizing molded article according to claim 1, wherein a resin of the thermally molding resin layer is a resin selected from the group consisting of polyamide, thermoplastic polyurethane and polycarbonate.
5. (Previously Presented) The polarizing molded article according to claim 4, wherein the polyamide as the resin of the thermally molding resin layer is a transparent type polyamide.

6. (Previously Presented) The polarizing molded article according to claim 1, wherein at least one of the surfaces of the polarizing molded article is covered with at least one of a functional coating selected from the group consisting of a hard coating, an anti-reflecting coating, an anti-fogging coating, an anti-staining coating and a mirror coating.

7. (Cancelled)

8. (Withdrawn) A process for preparing a polarizing molded article as defined in claim 1, which comprises a first step of preparing a polarizing plate having a structure in which a polarizer sheet layer is held between two protective sheet layers, a second step of preparing a polarizing composite in which a polyurethane sheet layer or a polyamide sheet layer of the polarizing plate with an adhesive or a pressure-sensitive adhesive, a third step of heat press-molding the polarizing composite into a spherical shaped body, and a fourth step of thermally molding a thermally molding resin layer on the polyurethane sheet layer or the polyamide sheet layer of the spherical shaped body.

9. (Withdrawn) The process for preparing a polarizing molded article according to claim 8, wherein a heat press molding machine for heat press-molding a polarizing composite into a spherical shaped body comprises a planar support having a hole having a size similar to that of the spherical shaped body in a planar direction, a clamp for securing the polarizing composite around the hole of the support, and a heatable anvil having a tip shape corresponding to a size and a curvature of the spherical shaped body, the anvil has a structure fittable in the support, and a third step of heat press-molding the polarizing composite into the spherical shaped body comprises [mounting the polarizing composite on the support-securing the polarizing composite on the support with a clamp-fitting an anvil and performing heat press molding-returning the anvil and the clamp to an original position-removing the spherical shaped body] as one cycle.

10. (Withdrawn) The process for preparing a polarizing molded article according to claim 9, wherein the polarizing composite is mounted on the support and is heat press-molded so that the polyurethane sheet layer or the polyamide sheet layer is on a convex side of the polarizing shaped body, the finished spherical shaped body is reverted, whereby the spherical shaped body is arranged so that the polyurethane sheet layer or the polyamide sheet layer is on a concave side.

11. (Withdrawn) The process for preparing a polarizing molded article according to claim 8, wherein an insert injection molding machine comprises a front mold having a curvature similar to that of the spherical shaped body and for securing the spherical shaped body and a movable mold having an arbitrary curvature, and a fourth step of insert injection-molding the polarizing molded body comprises [arranging and securing the spherical shaped body in the front mold so that the polyurethane sheet layer or the polyamide sheet layer is inside the mold-clamping the movable mold-injection-molding the thermally molding resin layer-removing the polarizing molded article] as one cycle.

12. (Previously Presented) The polarizing molded article of claim 1, wherein the adhesive is a pressure-sensitive adhesive.

13. (Cancelled)

14. (New) The polarized molded article of claim 1, wherein both of the two protective sheet layers each comprise an acylcellulose resin and both sides of the polarizer sheet layer are each connected to one side of one of the two protective sheet layers via an adhesive or pressure-sensitive adhesive.

15. (New) The polarized molded article of claim 14, wherein the thermally molded resin layer can be thermally adhered to the polyurethane sheet layer or the polyamide sheet layer and

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is selected from the group consisting of polyamide, thermoplastic polyurethane, and polycarbonate.